09923470 022201

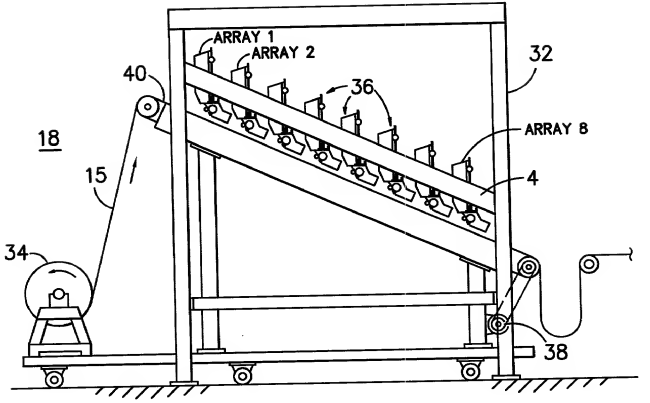


FIG. –1–

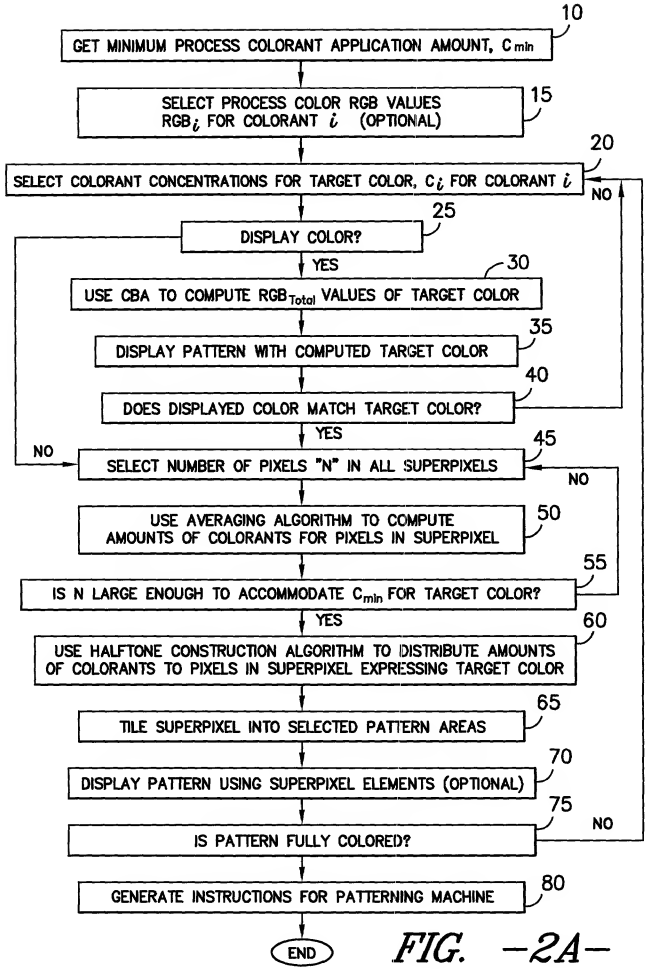


FIG. —2A—

T02280 "5243660

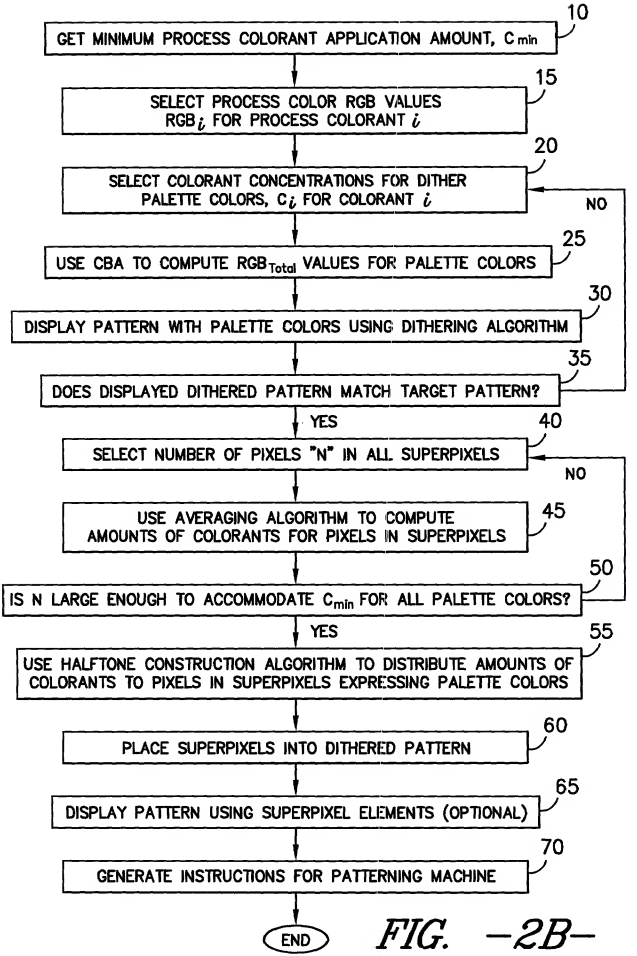


FIG. —2B—

T02280 '52452690

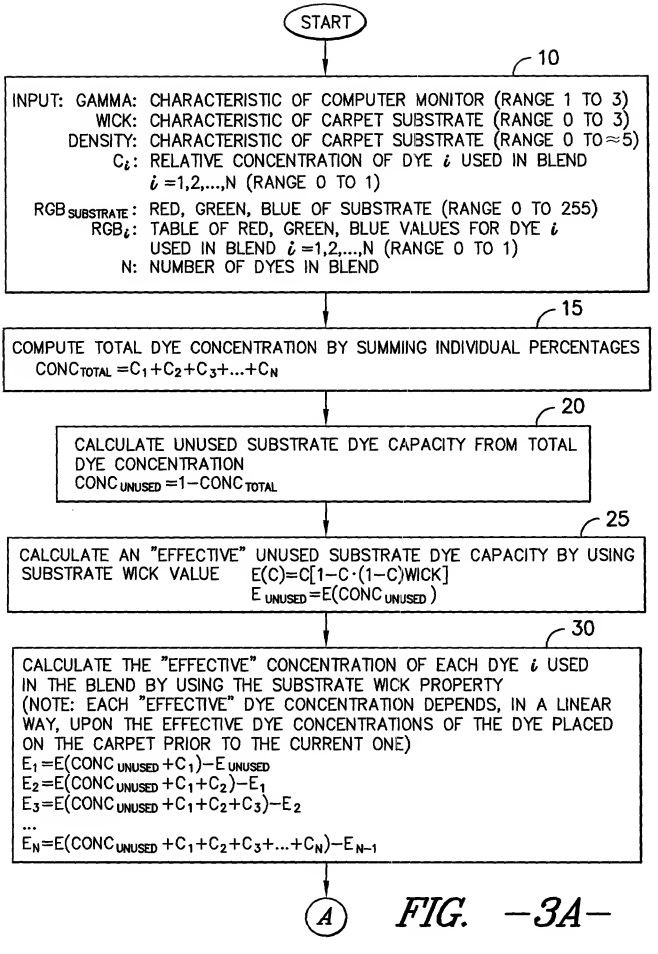


FIG. —3A—

T02280-0234720

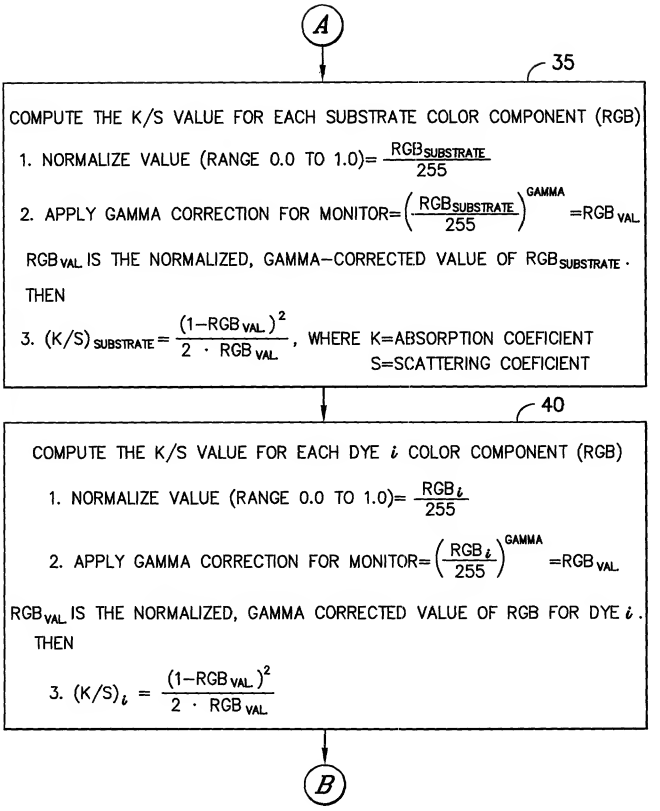

A
35
COMPUTE THE K/S VALUE FOR EACH SUBSTRATE COLOR COMPONENT (RGB)
1. NORMALIZE VALUE (RANGE 0.0 TO 1.0)= $\frac{RGB_{SUBSTRATE}}{255}$
2. APPLY GAMMA CORRECTION FOR MONITOR= $\left(\frac{RGB_{SUBSTRATE}}{255}\right)^{GAMMA}$ =RGB_{VAL}
RGB_{VAL} IS THE NORMALIZED, GAMMA-CORRECTED VALUE OF $RGB_{SUBSTRATE}$.
THEN
3. $(K/S)_{SUBSTRATE}=\frac{(1-RGB_{VAL})^2}{2 \cdot RGB_{VAL}}$, WHERE K=ABSORPTION COEFICIENT
S=SCATTERING COEFICIENT
40
COMPUTE THE K/S VALUE FOR EACH DYE i COLOR COMPONENT (RGB)
1. NORMALIZE VALUE (RANGE 0.0 TO 1.0)= $\frac{RGB_i}{255}$
2. APPLY GAMMA CORRECTION FOR MONITOR= $\left(\frac{RGB_i}{255}\right)^{GAMMA}$ =RGB_{VAL}
RGB_{VAL} IS THE NORMALIZED, GAMMA CORRECTED VALUE OF RGB FOR DYE i.
THEN
3. $(K/S)_i = \frac{(1-RGB_{VAL})^2}{2 \cdot RGB_{VAL}}$
B

FIG. -3B-

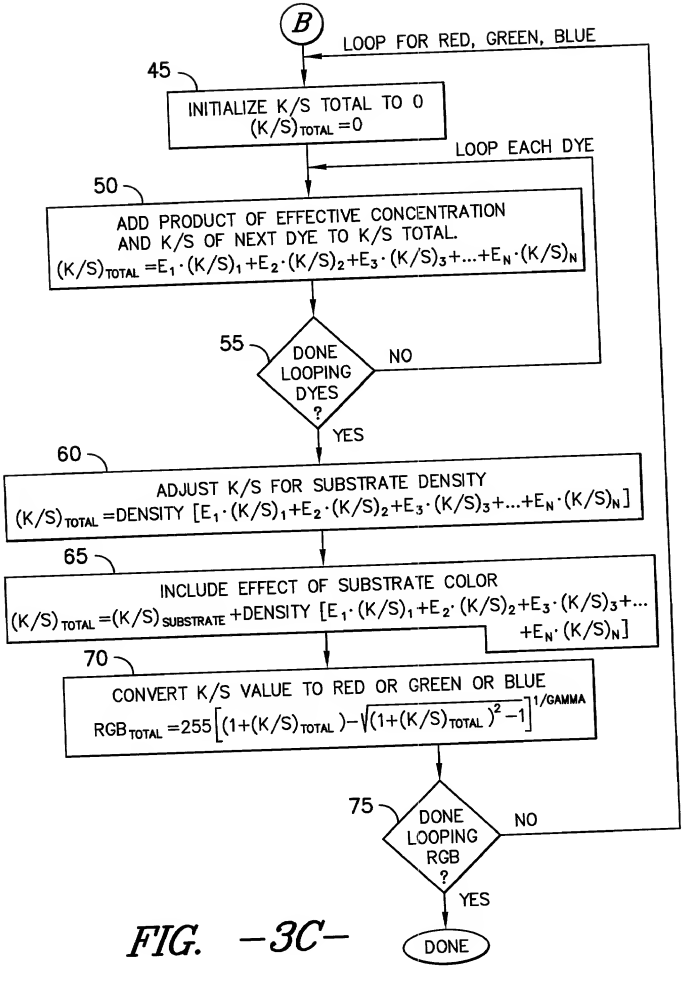


FIG. —3C—

10228D-52/83650

T02280 "62/4E660

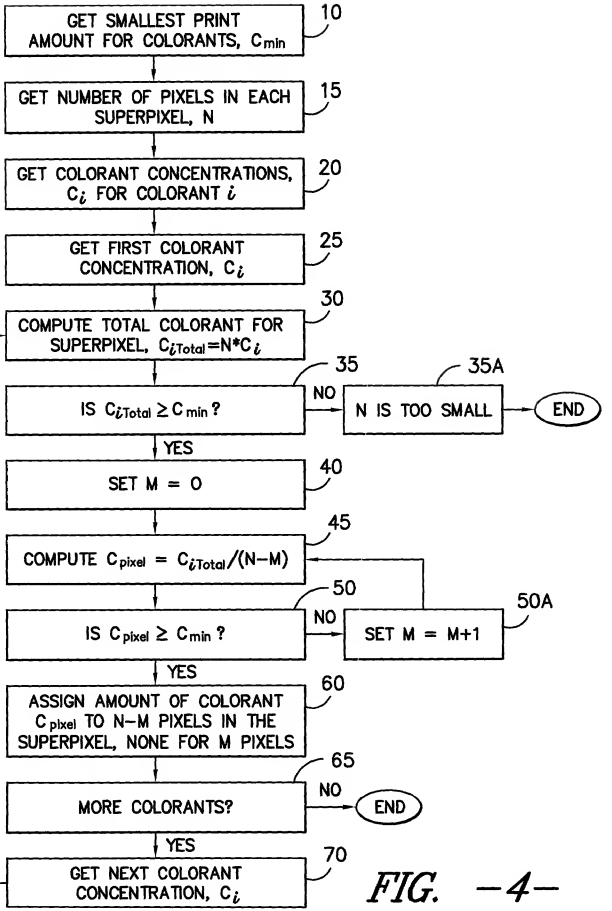


FIG. —4—

10/280,624 09/24/2002

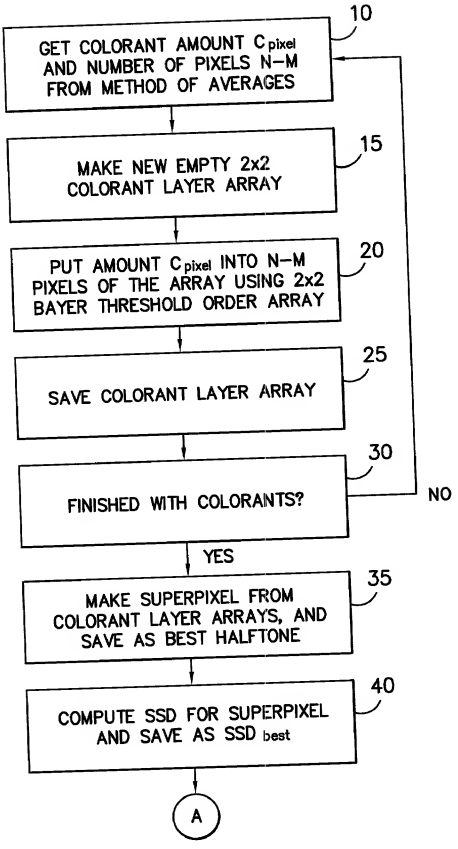


FIG. –5A–

10230"624E660

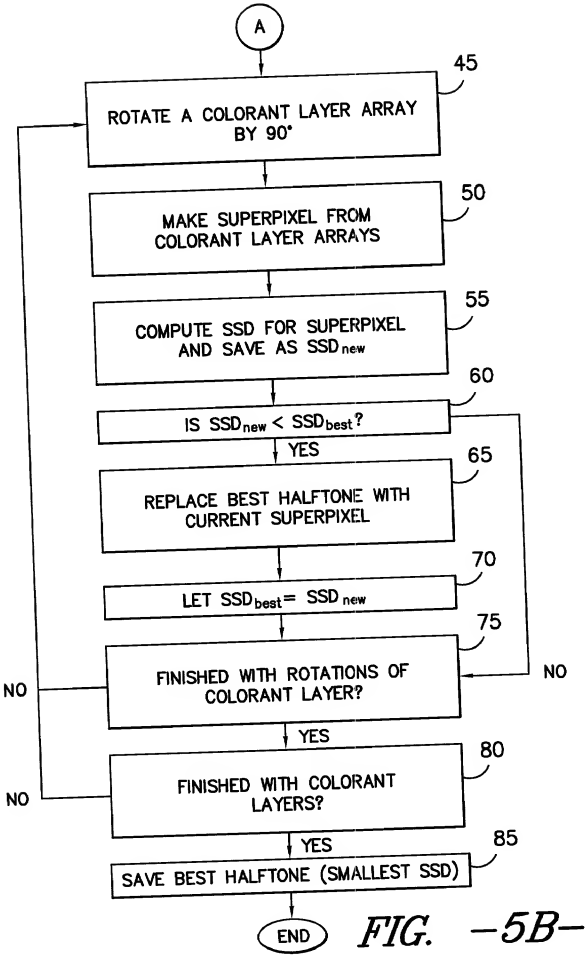


FIG. –5B–

T02280 '627h660 09934729

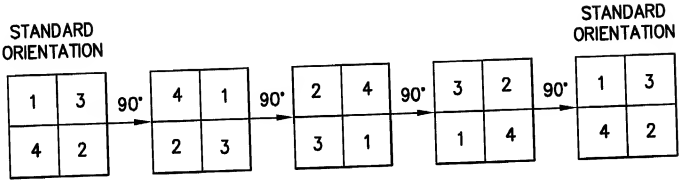


FIG. –6–

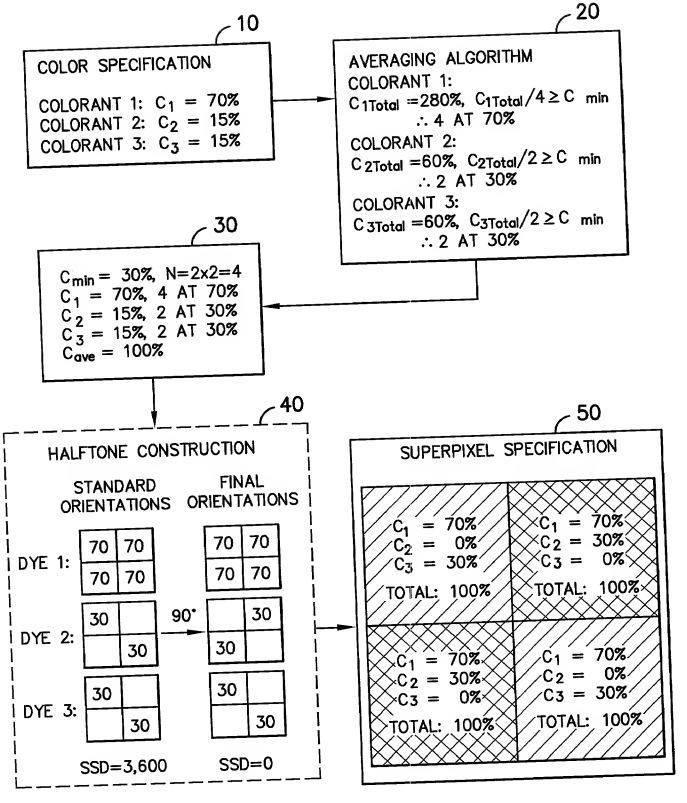

10
COLOR SPECIFICATION
COLORANT 1: C_1 = 70%
COLORANT 2: C_2 = 15%
COLORANT 3: C_3 = 15%
20
AVERAGING ALGORITHM
COLORANT 1:
C_{1Total} =280%, $C_{1Total}/4 \geq C_{min}$
∴ 4 AT 70%
COLORANT 2:
C_{2Total} =60%, $C_{2Total}/2 \geq C_{min}$
∴ 2 AT 30%
COLORANT 3:
C_{3Total} =60%, $C_{3Total}/2 \geq C_{min}$
∴ 2 AT 30%
30
C_{min} = 30%, N=2x2=4
C_1 = 70%, 4 AT 70%
C_2 = 15%, 2 AT 30%
C_3 = 15%, 2 AT 30%
C_{ave} = 100%
40
HALFTONE CONSTRUCTION
STANDARD ORIENTATIONS
FINAL ORIENTATIONS
DYE 1:
DYE 2:
DYE 3:
90°
SSD=3,600
SSD=0
50
SUPERPIXEL SPECIFICATION
C_1 = 70%
C_2 = 0%
C_3 = 30%
TOTAL: 100%
C_1 = 70%
C_2 = 30%
C_3 = 0%
TOTAL: 100%
C_1 = 70%
C_2 = 30%
C_3 = 0%
TOTAL: 100%
C_1 = 70%
C_2 = 0%
C_3 = 30%
TOTAL: 100%

FIG. –7–

T02280 "02/NC60

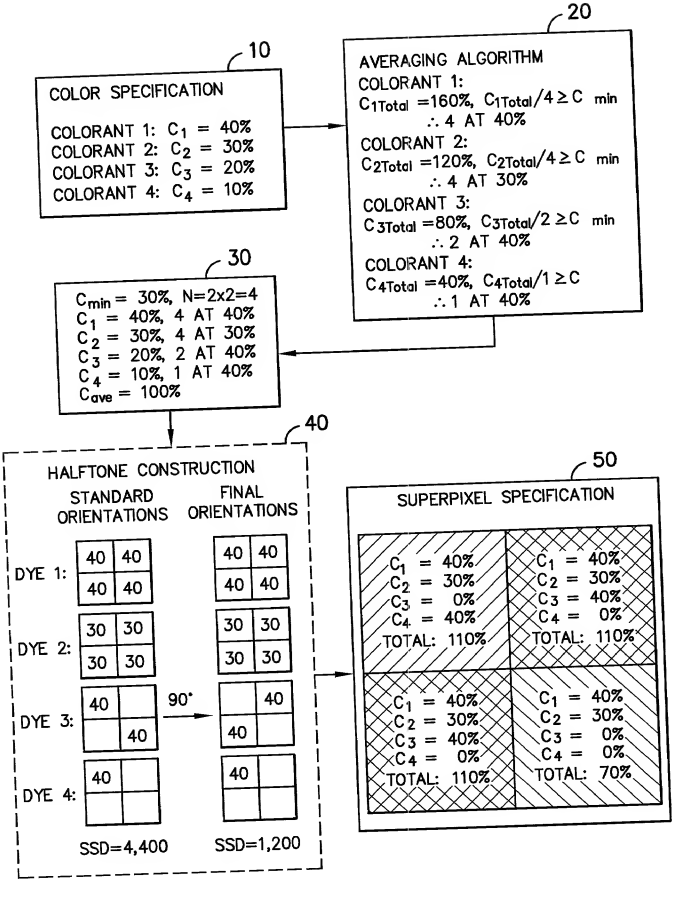


FIG. –8–

09234729 "02250 T02

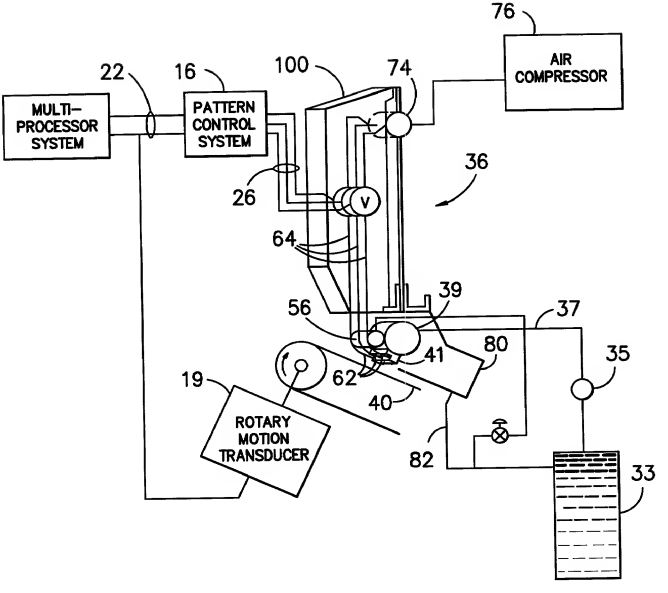
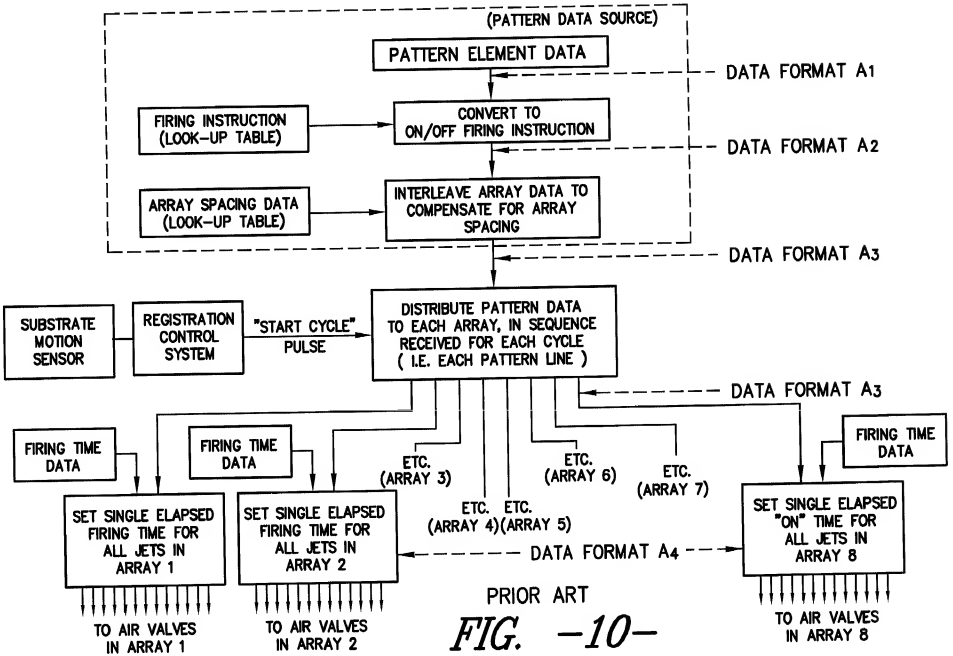


FIG. –9–

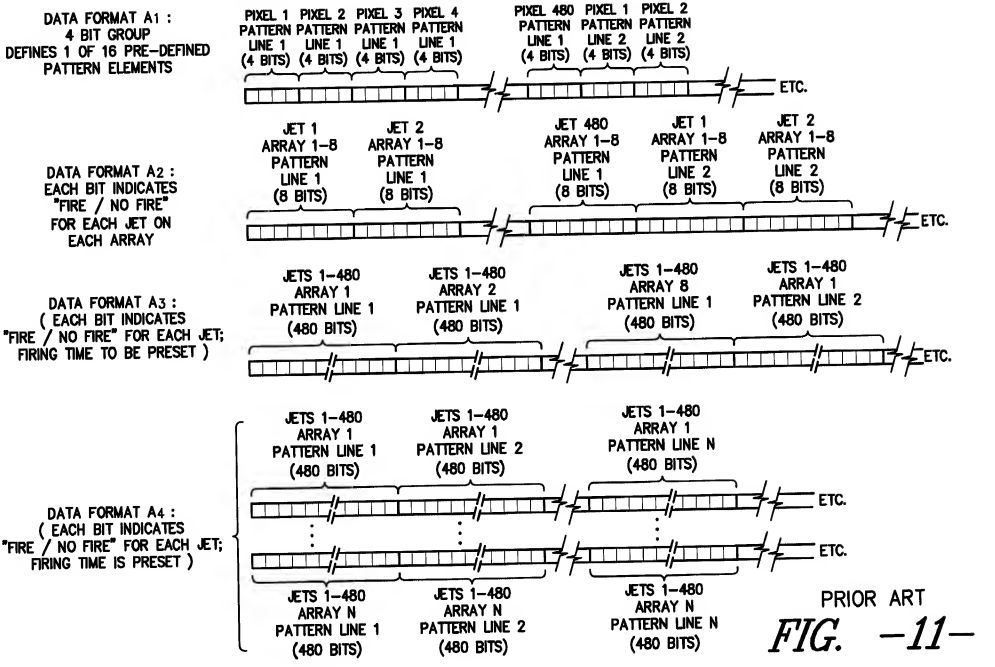
T02280 '62496690



PRIOR ART

FIG. –10–

T02280*624A660



PRIOR ART

FIG. —11—

T02280'6243E660

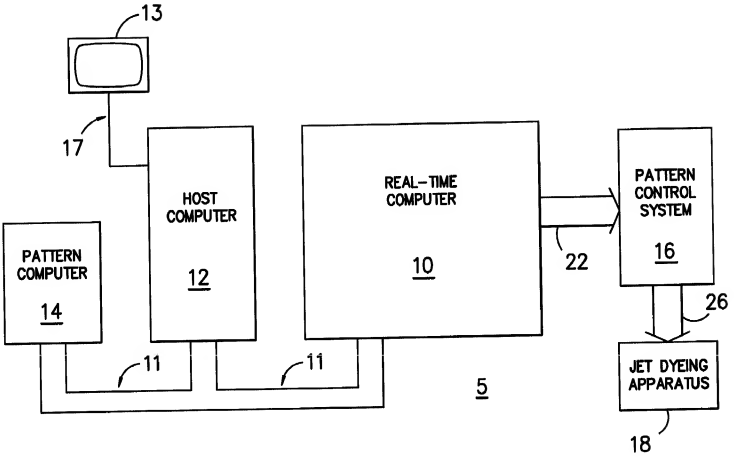


FIG. –12–

10/2280,624/MS60

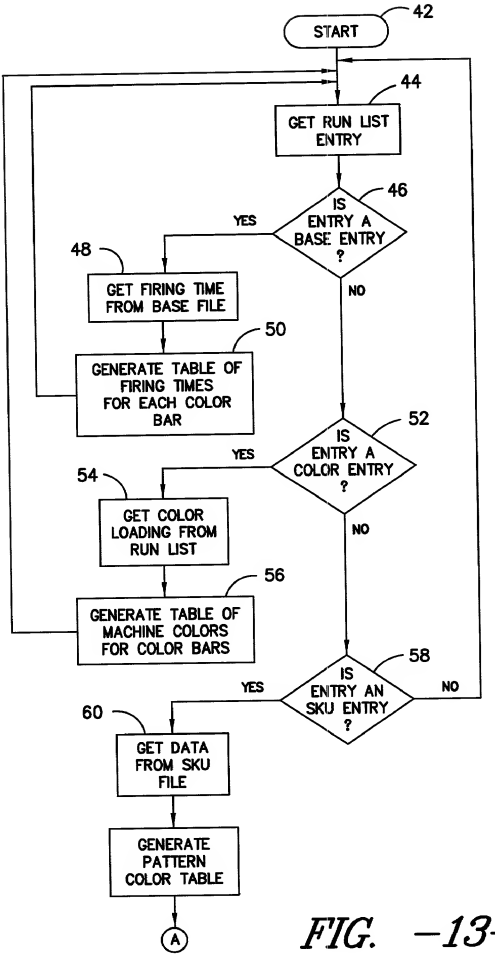


FIG. –13–

10280-624US0

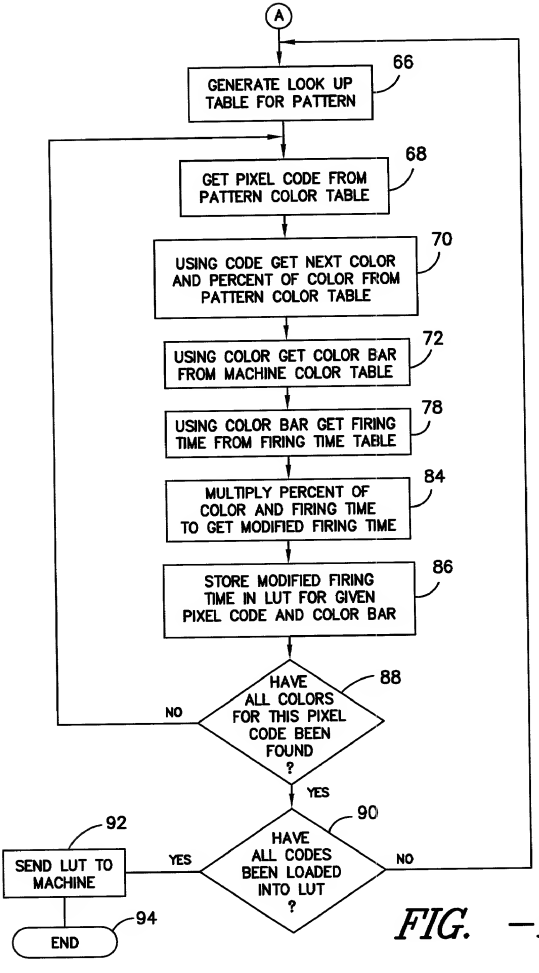


FIG. —14—

T02280*627hE660

BASE WXYZ

BAR	FT
1	10
2	10
3	20
4	15

FIG. –15A–

MACHINE CONFIG.

COLOR	BAR
RED	1
BLUE	2
GREEN	3
YELLOW	4

FIG. –15B–

SKU ABC

CODE	COLOR
A	RED
B	BLUE

FIG. –15C–

BASE WXYZ

BAR	FT
1	10
2	10
3	20
4	15

FIG. –16A–

MACHINE CONFIG.

COLOR	BAR
RED	1
BLUE	2
GREEN	3
YELLOW	4

FIG. –16B–

SKU ADE

CODE	COLOR
A	50% RED, 50% BLUE
C	GREEN

FIG. –16C–

LUT'S

CODES	1	2	3	4
A	10MS	0	0	0
B	0	10MS	0	0

FIG. –15D–

LUT'S

	1	2	3	4
A	5MS	5MS	0	0
C	0	0	20MS	0

FIG. –16D–

LUT'S

	1	2	3	4
A	0	0	20MS	0
B	0	10MS	0	0
C	5MS	2.5MS	0	3.75MS

FIG. –16E–

LUT'S

	1	2	3	4	5
A	0	0	0	0	10MS
B	0	10MS	0	0	0

FIG. –16F–

TI-22880-09247690

T02280 "62/4E660

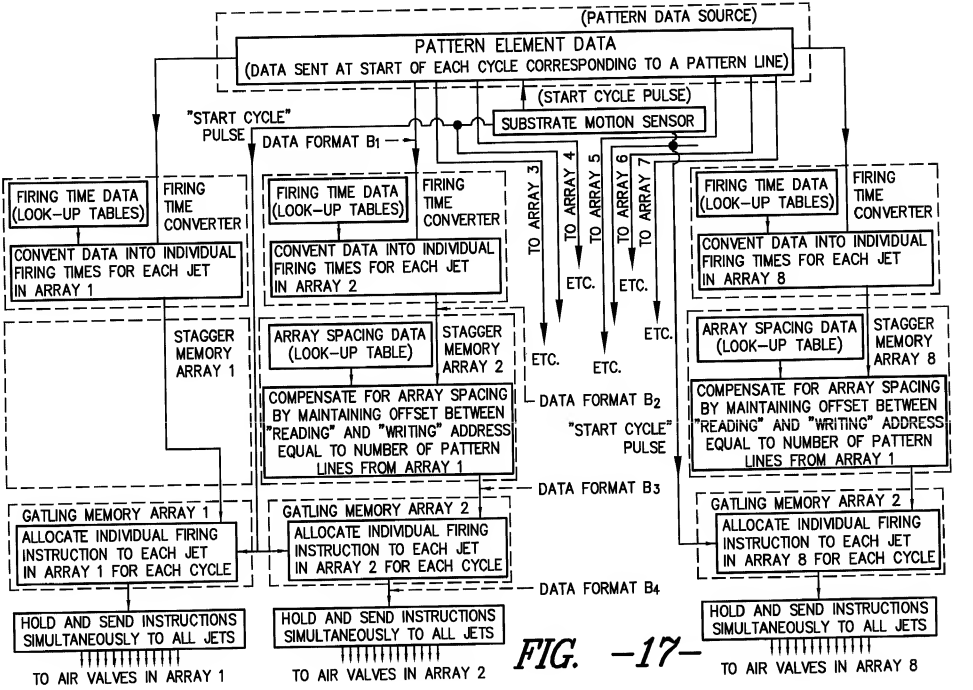
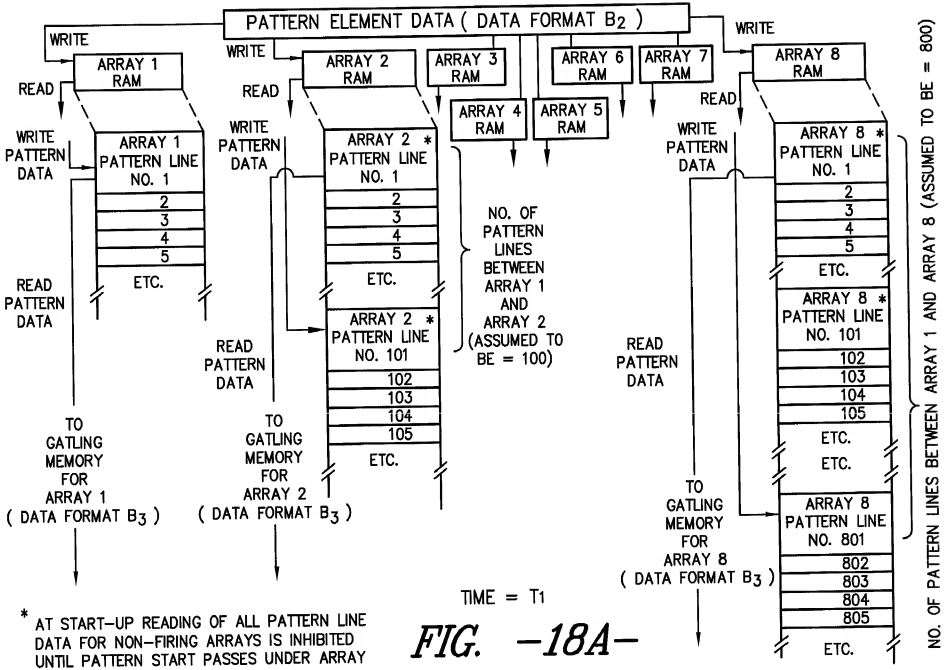


FIG. -17-

T02280*627E660
09934729



* AT START-UP READING OF ALL PATTERN LINE DATA FOR NON-FIRING ARRAYS IS INHIBITED UNTIL PATTERN START PASSES UNDER ARRAY

FIG. -18A-

T02280 627E660

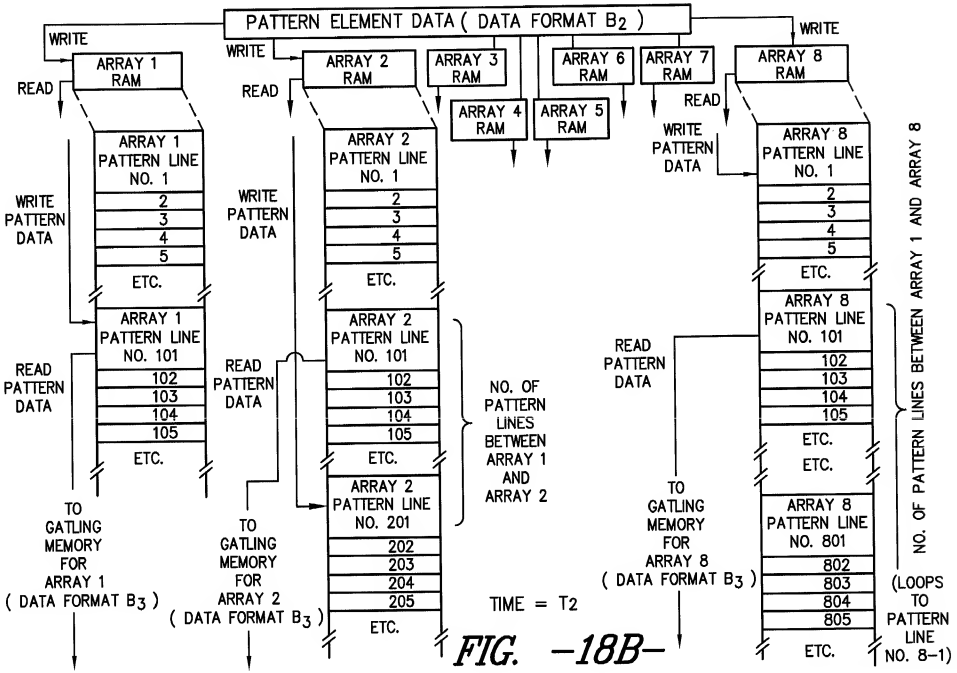


FIG. –18B–

TD2280'627hE660

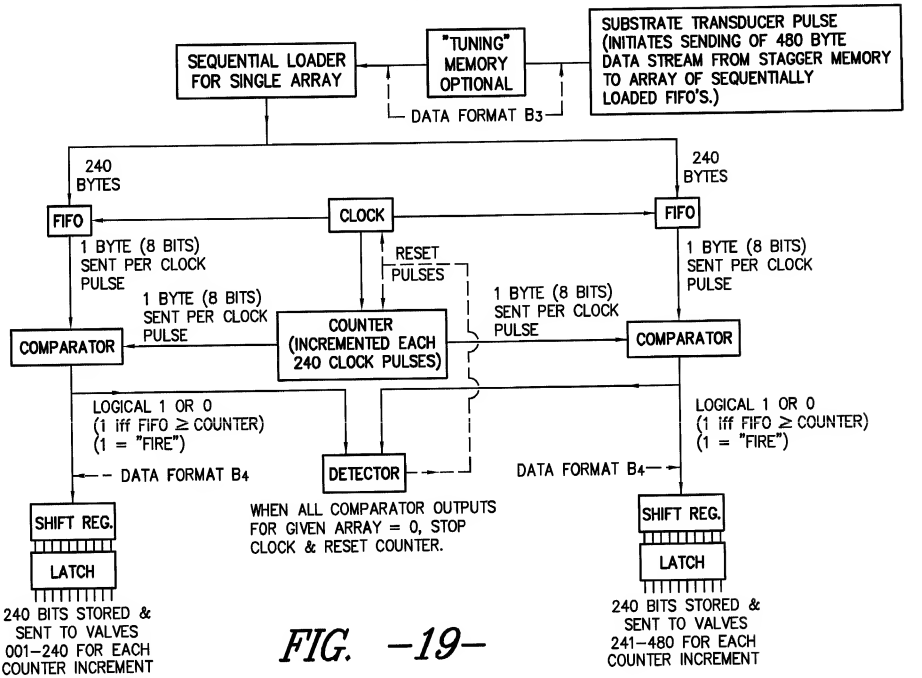


FIG. –19–

TD2280*627*E660

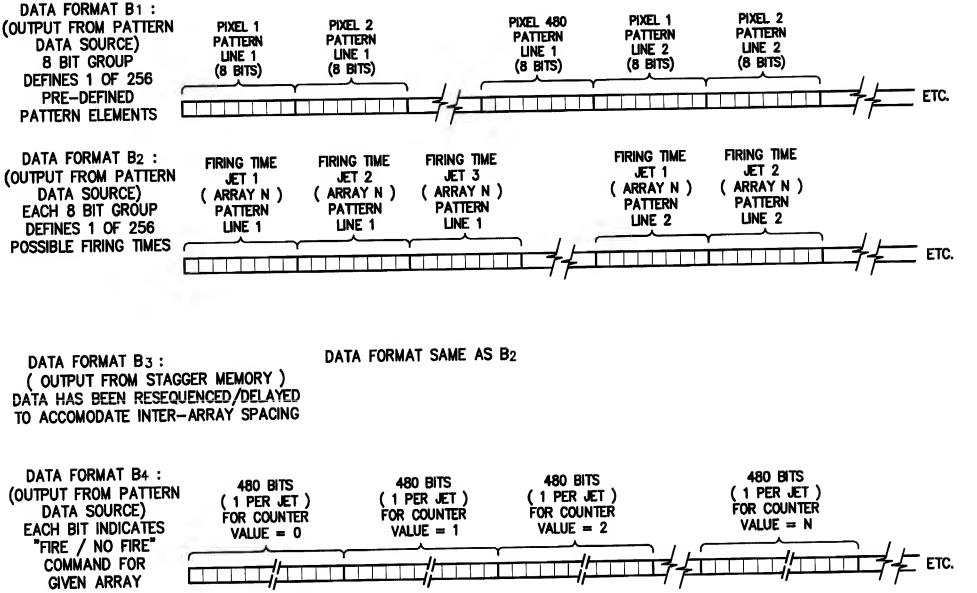


FIG. -20-

T02280"62/h6660

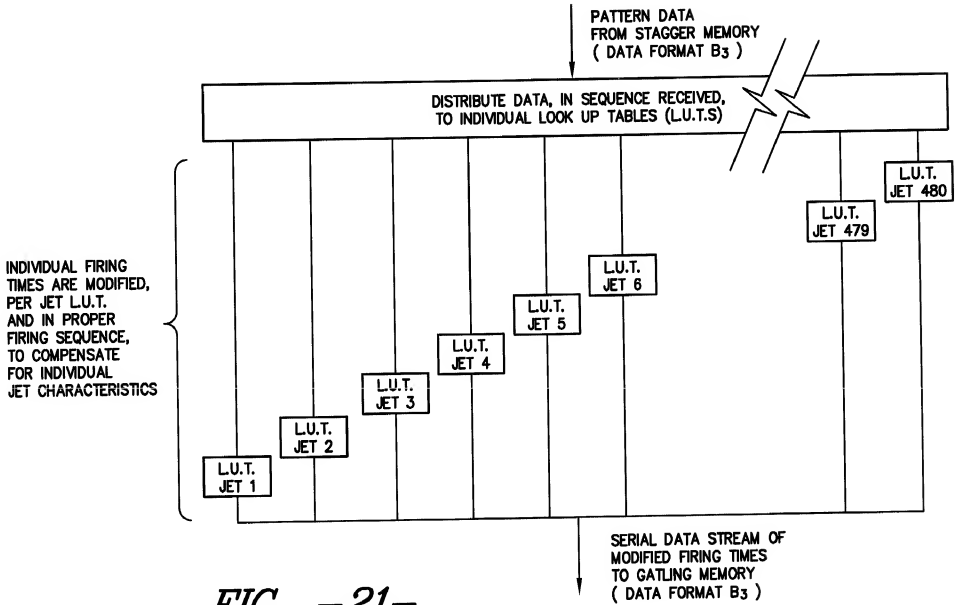


FIG. –21–